

B1  
A1  
obtaining data from a network of computers;  
applying text patterns to the obtained data and placing the data in a first data file;  
providing a second data file containing the obtained data in a uniform format;  
and  
generating user interface specific grammatical sentences from the data in the second data file.

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8. The method of claim 1, wherein the step of generating user interface specific grammatical sentences comprises applying attribute phrase grammars to the data in the second data file to create a parsed form of the data.

9. The method of claim 8, wherein the step of generating user interface specific grammatical sentences comprises applying lexical entry transformation tables to the parsed form of the data to create a term substituted form of the data.

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10. The method of claim 9, wherein the step of generating user interface specific grammatical sentences comprises applying term rearrangement rules to the term substituted form of the data according to a specific interface to create a rearranged form of the data.

11. The method of claim 10, wherein the step of generating user interface specific grammatical sentences comprises applying phrase generation grammars to the rearranged form of the data to create interface specific sentences.

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14. A system of transforming and canonicalizing semantically structured data, the system comprising:

A3  
means for obtaining data from a network of computers;  
means for applying text patterns to the obtained data and placing the data in a first data file;  
means for providing a second data file containing the obtained data in a uniform format; and

~~A3~~ means for generating user interface specific grammatical sentences from the data in the second data file.

B1 19. The system of claim 14, wherein the means for generating user interface specific grammatical sentences comprises means for applying various generation grammars to create interface specific sentences.

20. A method of taking data from one format to any of a variety of interface dependent formats, the method comprising:

~~A4~~ obtaining data from a network of computers;

creating a first data file with the obtained data in a first format; and

generating grammatical phrases from the converted obtained data, the generated grammatical phrases being in a second format associated with a user interface.

21. The method of claim 20, further comprising communicating voice output corresponding to the generated grammatical phrases.

22. The method of claim 20, further comprising storing the first data file and the generated grammatical phrases in a database.

24. A system of taking data from one format to any of a variety of interface dependent formats, the system comprising:

~~A5~~ means for obtaining data from a network of computers;

means for creating a first data file with the obtained data in a first format; and

means for generating grammatical phrases from the converted obtained data, the generated grammatical phrases being in a second format associated with a user interface.

25. The system of claim 24, further comprising means for communicating the generated grammatical phrases by voice to a remote communication device.

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27. The system of claim 24, wherein the means for generating grammatical phrases from the obtained data comprises means for generating wireless application protocol (WAP) phrases.

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30. A computer program product comprising computer readable program code for taking data from one format to any of a variety of interface dependent formats, the program code in the computer program product comprising:

first computer readable program code for obtaining data from a network of computers;

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second computer readable program code for creating a first data file with the obtained data in a first format; and

third computer readable program code for generating grammatical phrases from the converted obtained data, the generated grammatical phrases being in a second format associated with a user interface.

31. The program code of claim 30, further comprising fourth computer readable program code for providing voice output corresponding to the generated grammatical phrases.

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35. The program code of claim 30, wherein the generated grammatical phrases are in a web related format.